

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part Project No	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days Due	Total	Supplier Name
PO041674	ACI001-VC	3	1	Net 30	M6061T6B0.375X1.000	6061T6 Bar .375 X 1.00 : MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117412841154116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS-4160 OR ASTM B211 OR ASTM B221 receive ft				20/11/15/2018	20	\$127976	Stock	11/13/2018	\$ 1.58 / ft	13	\$31.50	Aacier Ouellette Inc.	
		4			M6061T6B0.750X06.000	6061T6 Bar .750 X 6.00 : MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117412841154116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS-4160 OR ASTM B211 OR ASTM B221 receive ft				24	24	\$127977	Stock	11/13/2018	\$ 20.36 / ft	13	\$488.52	Aacier Ouellette Inc.	
		5			M6061T6B1.000X1.000	6061T6 Bar 1.000 X 1.000 : MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117412841154116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS-4160 OR ASTM B211 OR ASTM B221 receive ft				24	24	\$127978	Stock	11/13/2018	\$ 4.12 / ft	13	\$98.78	Aacier Ouellette Inc.	
		6			M6061T6B2.000X01.250	6061-T6 Bar 2.00 X 1.25 : MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117412841154116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS-4160 OR ASTM B211 OR ASTM B221 receive ft				36	36	\$127979	Stock	11/13/2018	\$ 10.32 / ft	13	\$371.45	Aacier Ouellette Inc.	

PO No	Supplier Item No	Line Item No	Rel Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
	7			M6061T6R1.000	Round Bar 1.00"" MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 41284115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft					40		40	S127980	Stock	11/13/2018	\$ 3.02 / ft	13		\$120.60	Aacier Ouellette Inc.
	8			M6061T6R1.250	MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 41284115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft					40		40	S127981	Stock	11/13/2018	\$ 4.70 / ft	13		\$187.88	Aacier Ouellette Inc.
	9			M6061T6R0.500	MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 41284115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft					20		20	S127982	Stock	11/13/2018	\$ 0.81 / ft	13		\$16.17	Aacier Ouellette Inc.
	12			M6061T6S.500	6061-T6 0.500 Sheet: MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf						16		S127983	Stock	11/13/2018	\$ 29.89 / sf	13		\$478.20	Aacier Ouellette Inc.
	13			M304R1.000	304 Round Bar 1.00 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft						41		S127985	Stock	11/13/2018	\$ 12.65 / ft	13		\$518.83	Aacier Ouellette Inc.
	14			M304R0.375	304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft						12		S127986	Stock	11/13/2018	\$ 1.26 / ft	13		\$15.17	Aacier Ouellette Inc.

PO No	Supplier Item No	Line Rel No	Item Terms	Purchased Item	Description	For Part Project No	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days Due	Total	Supplier Name	
	16			MT-4140QT-R0.875	AISI 4140 Quenched & Tempered Steel Round Bar 0.875" Dia. : AISI 4140 Q&T Round Bar : MATERIAL: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM A4140 QT OR ASTM A4142 QT			20		20		S128382	Stock	11/15/2018	\$4.21 / ft	11	\$84.23 Acier Ouellette Inc.		
	17			M1-4140QT-R4.500	AISI 4140 Quenched & Tempered Steel Round Bar 4.500" Dia. : MATERIAL: AISI 4140 QUENCHED & TEMPERED STEEL. ROUND BAR SPECIFICATION: ASTM A4140 QT or ASTM A4142 QT			4		4		S128383	Stock	11/15/2018	\$73.85 / ft	11	\$264.37 Acier Ouellette Inc.		
	25			M304S11GA	304/316 0.125 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240					32		32		S127984	Stock	11/13/2018	\$ 15.54 / sf	13	\$497.20 Acier Ouellette Inc.
Total:										329	329						\$2,403.13		



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041674

E-MAILED
NOV 09 2018

Supplier:	ACI001-VC Acier Ouellette Inc. 935 Boul. Du Havre Valleyfield QC J6S 5L1 Canada Phone: 800 667 4248 Fax: 450 377 5696	PO No:	PO041674
		PO Date:	11/9/18
		Due Date:	11/15/18
		Purchase Order Revision:	
		Revision Date:	
		Ship-To Contact:	Lavoie, Chantal Phone: clavoie@dartaero.com
Ship To:	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	Via:	Ground
		Pymt Terms:	Net 30
		Freight Terms:	
		Special Comments:	extra charge for palette quote no: SOU0144781

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1		M6061T6B1.250X4.500		6061-T6 Bar 1.25 X 4.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/9/18	12 ft	0 ft	12 ft	\$34.791666/ft	\$417.50
2		M6061T6B1.750X1.750		6061T6 Bar 1.750 X 1.750 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/15/18	12 ft	0 ft	12 ft	\$14.246666/ft	\$170.96
3	AT	M6061T6B0.375X1.000		6061T6 Bar .375 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/15/18	20 ft	0 ft	20 ft	\$1.575/ft	\$31.50



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Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4		M6061T6B0.750X06.000		6061T6 Bar .750 X 6.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed -		11/15/18	24 ft	0 ft	24 ft	\$20.355/ft	\$488.52
									✓ 24ft		At 18/11/14	
5		M6061T6B1.000X1.000		6061T6 Bar 1.000 X 1.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed -		11/15/18	24 ft	0 ft	24 ft	\$4.1158333/ft	\$98.78
									✓ 24ft		At 18/11/14	
6		M6061T6B2.000X01.250		6061-T6 Bar 2.00 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed -		11/15/18	36 ft	0 ft	36 ft	\$10.318/ft	\$371.45
									✓ 36ft		At 18/11/14	
7		M6061T6R1.000		Round Bar 1.00" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed -		11/15/18	40 ft	0 ft	40 ft	\$3.015/ft	\$120.60
									✓ 40ft		At 18/11/14	
8		M6061T6R1.250		6061-T6 Round Bar 1.250 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed -		11/15/18	40 ft	0 ft	40 ft	\$4.697/ft	\$187.88
									✓ 40ft		At 18/11/14	



Dart Aerospace Ltd.
1270 Aberdeen St
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K6A 1K7
Canada

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PURCHASE ORDER PO041674

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
9		M6061T6R0.500		6061-T6 Round Bar .500" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed -		11/15/18	20 ft	0 ft ✓ 20 ft	20 ft	\$0.8085/ft	\$16.17
10		M6061T6R1.875		6061-T6 Round Bar 1.875" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed -		11/15/18	12 ft	0 ft	12 ft	\$18.75/ft	\$225.00
11		M6061T6R2.750		6061-T6 Round Bar 2.750" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed -		11/15/18	20 ft	0 ft	20 ft	\$18.75/ft	\$375.00
Line Item Note NOTE CUT BAR IN SECTION OF 10 FT												
12		M6061T6S.500		6061-T6 0.500 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed -		11/15/18	16 sf	0 sf ✓ 16 sf	16 sf	\$29.8875/sf	\$478.20
Line Item Note 1 PCS 48" X 48"												
13		M304R1.000		304 Round Bar 1.00 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed -		11/15/18	36 ft	0 ft ✓ 41 ft	36 ft	\$12.654416/ft	\$455.56
14		M304R0.375		304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed -		11/15/18	12 ft	0 ft ✓ 12.08 ft	12 ft	\$1.2558333/ft	\$15.07



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PURCHASE ORDER PO041674

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
15		MT-4140QT-R0.375		AISI 4140 Quenched & Tempered Steel Round Bar 0.375" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed -		11/23/18	12 ft	0 ft	12 ft	\$31.96/ft	\$383.52
16	✓ AT	MT-4140QT-R0.875		AISI 4140 Quenched & Tempered Steel Round Bar 0.875" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed -		11/15/18	20 ft	0 ft	20 ft	\$4.2115/ft	\$84.23

Line Item Note note cut bar in section 10 ft

17 AT	MT-4140QT-R4.500			AISI 4140 Quenched & Tempered Steel Round Bar 4.500" Dia. : MATERIAL: AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR SPECIFICATION: ASTM 4140 QT or ASTM 4142 QT	Firmed -		11/15/18	5 ft	3.58 ft	5 ft	\$79.466/ft	\$397.33
18	MT-1144-R4.000			AISI 1144 Stressproof Round Bar 4.000" : MATERIAL: AISI 1144 STRESSPROOF STEEL ROUND BAR ASTM A311 or UNS G11440	Firmed -		11/23/18	8 ft	0 ft	8 ft	\$98.125/ft	\$785.00
19	MT-1144-R5.000			AISI 1144 Stressproof Round Bar 5.000" : MATERIAL: AISI 1144 STRESSPROOF STEEL ROUND BAR ASTM A311 or UNS G11440	Firmed -		11/15/18	4 ft	0 ft	4 ft	\$397.1625/ft	\$1,588.65



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PURCHASE ORDER PO041674

Items												
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20		MT-4140-S-2.000X4.000		Steel Plate : MAT'L: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive ft	Firmed -		11/15/18	8 ft	0 ft	8 ft	\$98.125/ft	\$785.00
21		MT-4140-S-1.500X2.000		4140 Steel Bar 1.500 X 2.000 : MAT'L: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive ft	Firmed -		11/15/18	8 ft	0 ft	8 ft	\$48.125/ft	\$385.00
22		MT-A513-T- 5.250W0.375		ASTM A513 Type 5 Alloy Steel Round Tubing 5.250 Dia, 0.375 Wall	Firmed -		11/15/18	8 ft	0 ft	8 ft	\$103.75/ft	\$830.00
23		MT-O1-B-0.375X0.500		Tool Steel Bar 0.375" X 0.500"	Firmed -		11/15/18	6 ft	0 ft	6 ft	\$21.08333/ft	\$126.50
24		MT-O1-R0.375		Tool Steel Round Bar 0.375 dia.	Firmed -		11/15/18	6 ft	0 ft	6 ft	\$4.866666/ft	\$29.20
25		M304S11GA		304/316 0.125 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	Firmed -		11/15/18	32 sf	0 sf	32 sf	\$15.5375/sf	\$497.20
26		MT-4140QT-R9.000		AISI 4140 Q&T Round Bar 9.000" Dia.	Firmed -		11/15/18	2.25 ft	0 ft	2 ft	\$724.60444/ft	\$1,630.36

Line Item Note 6 pcs of 4.50"

Grand Total: \$10,974.18

Order Notes

- Procurement Quality Clauses
- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/9/18 1:12 PM dart.lavoie.chantal

**ACIER OUELETTE INC**

935, Boul. du Hâvre
Salaberry-de-Valleyfield, Québec J4S 2L1
Tél.: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT**Copy**

CO00120068

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.

HAWKESBURY, Ontario, K6A 1K7

Tél.: 705-667-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

041674

Josianne Bourdon

Instruction

F-M

Att : LUSSIER Tél.: (613) 632-5200 X 730

Delivery Route

5

Shipped toW.H.P. LTD.
1270 , ABERDEEN ST.

HAWKESBURY

Ontario, K6A 1K7

Tél.: 705-667-4248

Ext.: 800-667-4248

041674

Josianne Bourdon

OUELETTE VALLEYFIELD

Net 30 Days

Product Description

	Customer N°	Date	Delivery date	Your order N°	Processed by	Salesman	Carrier	Credit Termes	Internal Use Only			
									CMD	EXP	B/O	IN
1 FLAT ALU 3/8 X 1 6061-T6 *									1X30'			
FAL-381	2613	20.00	PI_\$CLB									
1 X 20' HEAT: SXF180947	A1											
2 FLAT ALU 3/4 X 6 6061-T6 *									2X12'			
FAL-346	2601	24.00	PI_\$CLB									
2 X 12' HEAT: 18033861B	A1											
3 SQUARE ALU 1 6061-T6 *									1X12'			
CAL-1	1781	28.22	PI_\$CLB									
2 X 12' HEAT: SXD180929	A1											
4 FLAT ALU 1 1/4 X 2 6061-T6 *									1X8'			
FAL-1142	2456	36.00	PI_\$CLB									
3 X 12' HEAT: Z00247133	A1											
5 ROUND ALU 1 6061-T6 *									3X12'			
RAL-1	5141	37.00	PI_\$CLB									
2 X 20' HEAT: SXE171894	A1											
6 ROUND ALU 1 1/4 6061-T6 *									2X30'			
RAL-114	5121	57.64	PI_\$CLB									
2 X 20' HEAT: SXF162069	A1											
7 ROUND ALU 1/2 6061-T6 *									1X30'			
RAL-12	5127	4.62	PI_\$CLB									
1 X 20' HEAT: SXD180879	A1											
8 ALU PLATE 1/2 6061-T6 RANDOM									1X44'			
PAL-126061-V	4229	116.00	PI2_\$CLB									
1 PL. 48" X 48"												
HEAT: S38015101	A1											
									4X4'			

DELIVERY - CLIENT

CO00120068

Copy

Product Description	Qty	Weight	UM	PCS NB				Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C	OUT
SAW CUT											
9 ROUND SS 1 304 (R)	96.12	1.00	UN								
RSS-1 3 X 12' R/L HEAT : CH-8421	5747	36.00	PI_\$CLB	2X131"	1X132"						
10 ROUND SS 3/8 304 (R)	4.51	12.00	PI_\$CLB	1X12"	1X12"	1X20'					
RSS-38 1 X 12' R/L HEAT : 43806	5768	40.90	PI_\$CLB								
11 ROUND 4140 HEAT TREAT 7/8 (R)	277.95	5.00	PI_\$CLB								
R4140-78H 1 X 20' R/L	4997	168.00	PI2_\$CLB								
TRANSIT ST-JEROME LE 14/11											
12 ROUND 4140 ANNEALED 4 1/2 (R)											
R4140-412A 1 X 5' DC	4957	32.00	PI2_\$CLB								
TRANSIT ST-JEROME LE 14/11											
13 SHEET SS 11G SS304-2B (4 X 8)											
FESS-11G83042B 1 X 4' X 8' HEAT : AIN050390	3402	1.00	UN	PI2_\$UN							
14 PALETTE	7573										

Note : ATTENTION: MILL TEST REQUIS**Total Weight (Lbs) :****NIR : R-109516-6****Conditions :**

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :

Delivered By :	Time

Y	M	D
18	11	13
Date		

Customer's Signature

26/3

FAL-38212

52176

Global Vietnam
Aluminium Co.,Ltd GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

TRA 2714

Address: MY XUAN B1-CONAC INDUSTRIAL ZONE, MY XUAN WARD, PHU MY TOWN,
BA RIA-VUNG TAU PROVINCE, VIETNAM
 Tel: +84(0)643924954
 Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: July 22th, 2018

PO number: P-18239

Shipping Ref No.: 18-1749

LC No.: DC HMN812691

Date of issue: July 18, 2018

Item Code: 1026800

Die Number: D00274

Alloy & Temper: 6061-T6

Production Description: ALUMINIUM EXTRUDED PROFILES

Flat Bar .375" x 1" x 240" 6061-T6 D00274

Length (inch): 240

Bundle number: P-18239-206

Heat Number: SXF180947

Date: 01/07/2018

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									Each	Total	
0.626	0.963	0.240	0.232	0.012	0.058	0.007	0.018	97.745	<0.05	<0.10	28/06/2018

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
47.63	45.23	11.8	28/06/2018

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
 TNHH NHÔM TỔN CẨU VIỆT NAM
 GLOBAL VIETNAM ALUMINIUM
 CO., LTD TESTING CENTER

heat: SXF180947

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6511/T651/T652 ALUMINUM BAR
SPECIFICATION: QQ-A-225/8 OR AMS-QQA-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQA-200/8 (OR AMS 416G)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B	T.TTT	X	WW WWW
	THICK		WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-03-02
[Signature]

B	REMOVE QQ-A-225/11 OPTION REFORMAT ROTS, ADD ASTM B211(B211) (EN DP74)	C/P	09/07/13
A	NEW ISSUE	DS	01/06/08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	<i>[Signature]</i>		
CHECKED	<i>[Signature]</i>		
MFG. APPR.	<i>[Signature]</i>		
APPROVED	<i>[Signature]</i>		
DE APPR.	<i>[Signature]</i>		
DATE	09.07.13		

DART AEROSPACE LTD			
HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6B			
REV. B			
DESIGN	DS	BY	DATE
DRAWN	<i>[Signature]</i>		
CHECKED	<i>[Signature]</i>		
MFG. APPR.	<i>[Signature]</i>		
APPROVED	<i>[Signature]</i>		
DE APPR.	<i>[Signature]</i>		
DATE	09.07.13		

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WRITTEN PERMISSION OF DART AEROSPACE LTD.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B0.375x1.000
 DATE: 18/11/14

PO / BATCH NO.: P0041674/5127976

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 20 ft
 QUANTITY INSPECTED: 20 ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375"
 THICKNESS RECEIVED: 0.375"
 SHEET SIZE ORDERED: -
 SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>(Y)</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u> N	<u>ASTM B221</u>
CORRECT THICKNESS	<u>(Y)</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u> N	<u>HT: SXF180947</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u> N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>Ar</u>	SIGNED OFF BY: _____
DATE: <u>18/11/14</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

260

FAC-346

CAN ART
ALUMINUM EXTRUSION L.P.

Material Test Report

Manifest: 338375

Ticket:

5591267

Our Order: **883748 - 10** Cust P.O.: C75638

Die: ES05873 Part: V836002 ✓

Alloy Temper: 6061 T6511 Description: .750 x 6.000

Print Date: 4/9/18

R118461

Chemical Composition Range

6061	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other Each	Other Total
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

Mechanical Properties

Strength ksi

Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
78830	<u>18033861B</u>	A11	3/27/18	40.13	37.61	18.0

Applicable Specifications: ASTM B221-14 AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.


 Evan Eng, Quality Assurance Manager

Heat: 18033861B

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6511-T62 ALUMINUM BAR
SPECIFICATION: QQ-A-225B OR AMS-QQ-A-225/8 (OR AMS 4117A/128/4115/4116)
OR QQ-A-2008 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B1	T.TTT	X	WW.WWW
THICK			WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G., 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-05-03
[Signature]

B	REMOVED 00 & 28041 OPTION REFORMAT NOTES AND ASTM B211/B221 (ZN DT-1)	CP	09-07-13
A	NEW ISSUE	DS	01-06-08
REV.	DESCRIPTION	BY	DATE
	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DESIGN	DS		
DRAWN	<i>AS</i>	DRAWING NO.	REV. B
CHECKED	<i>AS</i>	M6061T6B	SHEET 1 OF 1
MFG. APPR.	<i>AS</i>	TITLE	NTS
APPROVED	<i>AS</i>	6061-T6 BAR	COPYRIGHT © 2001 BY DART AEROSPACE LTD ALL RIGHTS RESERVED. THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE KEPT CONFIDENTIAL AND NOT COPIED OR DISSEMINATED EXCEPT AS PERMITTED BY DART AEROSPACE LTD.
DE APPROV.	<i>AS</i>	DATE	09-07-13
DATE			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M601T6BD-750x06.000
 DATE: 18/11/14

PO / BATCH NO.: P0041674/S127977

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 24 ft
 QUANTITY INSPECTED: 24 ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750 "
 THICKNESS RECEIVED: 0.750 "
 SHEET SIZE ORDERED: -
 SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> N	<i>ASTM B21</i>
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> N	<i>LIT: 18033861B</i>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	
CORRECT M# ON THE MATERIAL	<u>Y</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AJ</u>	SIGNED OFF BY: _____
DATE: <u>18/11/14</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

1781

CAL-1

52177

TPA 29/3

Global Vietnam
Aluminium Co.,Ltd

GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN B1-CONAC INDUSTRIAL ZONE, MY XUAN WARD, PHU MY TOWN,
 BA RIA-VUNG TAU PROVINCE, VIETNAM
 Tel: +84(0)643924954
 Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: July 22th, 2018

PO number: P-18239

Shipping Ref No.: 18-1749

LC No.: DC HMN812691

Date of issue: July 18, 2018

Item Code: 1042600

Die Number: D00197

Alloy & Temper: 6061-T6

Production Description: ALUMINIUM EXTRUDED PROFILES

Square Bar 1" x 1" x 20' 6061-T6 D00197

Length (inch): 240

Bundle number: P-18239-187

Heat Number: SXD180929

Date: 26/06/2018

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									EACH	TOTAL	
0.656	0.986	0.218	0.242	0.015	0.056	0.012	0.021	97.684	<0.05	<0.10	23/06/2018

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
43.56	39.68	10.6	23/06/2018

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
 TNHH NHÔM TOÀN CẦU VIỆT NAM
 GLOBAL VIETNAM ALUMINIUM
 CO., LTD TESTING CENTER

Heat: SXD 180929

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL MATERIAL 6061-T6 / T6510/T6511/T62 ALUMINUM BAR
 SPECIFICATION:
 QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 416G)
 OR ASTM B211 OR ASTM B22

A
 PART NUMBER:

M6061T6B	T.TTT	X	WW.WWW
THICK		WW	WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
 2009-05-03
AM

B	REMOVE QQ-A-25041 OPTION REFORMAT NOTES, AND ASTM B211B22 (2N D7.1)	C/P	09-07-13
A	NEW ISSUE	CS	01-06-03
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	<i>G</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>AS</i>	DRAWING NO	REV. B
MFG. APPR.		M6061-T6B	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APR.		6061-T6 BAR	NITS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD ALL RIGHTS RESERVED. THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE KEPT CONFIDENTIAL AND NOT COPIED OR DISSEMINATED EXCEPT AS AUTHORIZED BY DART AEROSPACE LTD.	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B1.000x1.000
 DATE: 18/11/14

PO / BATCH NO.: P0041674/5127978

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 24 ft
 QUANTITY INSPECTED: 24 ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000"
 THICKNESS RECEIVED: 1.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	<i>ASTM B221</i>
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	<i>HT-SXD180929</i>
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AJ</u>	SIGNED OFF BY: _____
DATE: <u>18/11/14</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

2456

FAL-1142

52197 19909

3

*Bent in
Gass*

CERTIFIED TEST REPORT

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:							
4500867238-1		160001442		1.250 X 2.000 SC RECT BAR							
ORDER NUMBER:		LINE ITEM:		SHIP DATE:		LOT NUMBER:					
6048080		001		02/23/2018		Z00247133					
WEIGHT SHIPPED:		QUANTITY:		B/L NUMBER:		DIAM/DAF/THKNS:					
953.000 LB		27.000 PCS		621920		WIDTH:					
SHIP TO:		SOLD TO:									

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00247133	0001	0001	44.1	39.0	16.5	RE	93	N/A
Z00247133	0001	0002	44.3	39.0	16.1	RE	92	N/A
Z00247133	0001	0003	44.0	38.7	15.7	RE	92	N/A
Z00247133	0001	0004	43.9	38.7	17.4	RE	91	N/A
Z00247133	0001	0005	47.8	43.7	16.4	RE	92	N/A
Z00247133	0001	0006	47.2	43.0	13.1	RE	92	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
108262	.61	.26	.21	.08	.85	.08	.10	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY

ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

Heat! Z00247133

Plant Serial: 00323057

Order Number: 6048080

Line Item: 001

Best in Class

CERTIFIED TEST REPORT

CERTIFICATION

Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in r's sales acknowledgement form. Any warranty is limited to that shown on s general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00323057

Order Number: 6048080

Line Item: 001

CERTIFICATION DU MATÉRIEL

CLIENT:
SALABERRY-DE-VALLEYFIELD

ACIER OUELLETTE INC DIV.DE
935 BOUL DU HAVRE
SALABERRY-DE-VALLEYFIELD, QUEBEC
QC J6S 5L1

NUMÉRO DE COMMANDE: 15032988 000010
COMMANDE DU CLIENT: ac00019909 10
NUMÉRO DE PIÈCES: 2456
NUMÉRO DE LIVRAISON: 803894666 000010

NUMÉRO D'ARTICLE: 160001442
DESCRIPTION INVENTAIRE: FLT EXT 6061 T6511 1.25 X 2 X 144

DESCRIPTION ARTICLE FINIS: ALUM Barre PLTE EXT 6061 T6511
1.25po X 2po X 144po

NUMERO (S) DE COULEE	BRAME / BOBINE / TIN (le cas échéant)
Z00247133	K000768441

CERTIFICATION

Un sondage de nos sources matérielles a indiqué que ni le mercure ni des substances radioactives ne sont introduits dans leurs produits ni ne sont utilisés dans aucun de leurs procédés. Alors que nous ne faisons aucun test indépendant pour le mercure ou la radiation, il n'y a rien dans le système qui pourrait entraîner la contamination de l'un ou l'autre type.

Ce document certifie que le matériel décrit ci-dessus a été expédié conformément à votre commande. Le producteur du matériel a certifié à qu'il a été produit conformément aux spécifications suivantes:

ASTM B221

09/24/2018


 Thomas Endres
 Vice-président - Approvisionnement

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: M6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4/128/4/115/4/16)
OR QQ-A-2008 OR AMS-QQ-A-2008 (OR AMS 4160)

OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R[D.DD]

| DIA.

WHERE "D.DD" = DIAMETER IN INCHES

E.G. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
2009-08-09
MJ

B	REFORMATTED: 03/09C ADD B2118 B221 SPEC (ZN DB-1).	GP	09-07-13
A	REF PAR: 03/020A	DS	01-06-08
REV	NEW ISSUE	BY	DATE

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

REV. B
SHEET 1 OF 1
NIG

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061-T6B 3.000x01.250
 DATE: 18/11/14

PO / BATCH NO.: P0041674/S127979

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 36.44
 QUANTITY INSPECTED: 36.44
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250"
 THICKNESS RECEIVED: 1.250"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>(Y)</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u> N	<u>ASTM B211</u>
CORRECT THICKNESS	<u>(Y)</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u> N	<u>H1:Z00247133</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u> N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: _____
DATE: <u>18-11-14</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

5141



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

RAL-1

50917

CA-51648

15420

Address: MY XUAN B1-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,
BA RIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954
Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: October 29, 2017

PO number: 17-P-565

Shipping Ref No.: 17-2134

LC No.: DC HMN714345

Date of issue: October 24, 2017.

Item Code: 1043003

Die Number: D00004

Alloy & Temper: 6061-T6

Production Description: CUSTOM ALUMINIUM EXTRUSION

Round Bar 1"x 20' 6061-T6

Length (inch): 240

Unit weight (kg/meter): 1.368

Bundle number: 17-P-565-043, 17-P-565-042, 17-P-565-041, 17-P-565-040

Heat Number: SXE171894

Date: 05/10/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									EACH	TOTAL	
0.662	0.964	0.232	0.247	0.024	0.082	0.009	0.019	97.664	<0.05	<0.10	03/10/2017

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
41.7	36.8	12.3	03/10/2017

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TNHH NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINUM
CO., LTD TESTING CENTER

Heat: SXE 171894

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: M6061-T6/T651/T652 ALUMINUM ROUND BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)

OR ASTM B211 OR ASTM B22

PART NUMBER:

M6061T6RID, DDD
DIA.

WHERE "D, DDD" = DIAMETER IN INCHES

E.G. 5/8" ROUND BAR = M6061T6R0.625

B

RELEASED
2009-09-09
[Signature]

B	REFORMAT DRAWING ADD B211& B2221 SPEC./7N (D6-1), REF PAR 08-020A	UP	09-07-13
A	NEW ISSUE	DS	01-06-08
REV.	DESCRIPTION	HY	DATE
	DART AEROSPACE LTD		
	HAWKESBURY, ONTARIO, CANADA		REV. B
DESIGN	<i>[Signature]</i>	DRAWING NO.	SHEET 1 OF 1
DRAWN		M6061T6R	
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13	SCALE	NTS
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A

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6RL.000
 DATE: 18/11/15

PO / BATCH NO.: P0041674/S127180

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 40 ft
 QUANTITY INSPECTED: 40 ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.00"
 THICKNESS RECEIVED: 1.00"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	Y (N)	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	Y (N)	
CORRECT MATERIAL PER M-DRAWING	Y (N)	ASTM B21
CORRECT THICKNESS	Y (N)	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	Y (N)	HFSHE171894
CORRECT MATERIAL IDENTIFICATION	Y (N)	
CORRECT M# ON THE MATERIAL	Y (N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/11/15</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

5/12/1

MNU 114 - V

TRS 1972

49574

GVA
Global Vietnam
Aluminium Co., Ltd.

GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: My Khanh B1-Conac industrial zone, My Khanh town, Tan Thanh district,
Ba Ria-Vung Tau province, Viet Nam

Tel: +84(0)643924954

Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: January 19, 2017

PO number: 16-P-421

Customer PO: Inventory

Shipping Ref No.: 17-0046

LC No.: DC/1HMN710232

Date of issue: January 18, 2017

Item Code: 1043103

Die Number: D00005

Alloy & Temper: 6061-T6

Production Description: Round Bar 1.25"x 20' 6061-T6 D00005

Length (inch): 240

Bundle number: 16-P-421-090, 16-P-421-091, 16-P-421-092, 16-P-421-093, 16-P-421-094

Heat Number: SXF162069

Date: 10/01/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

SI	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									RACH	TOTAL	
0.637	0.921	0.230	0.243	0.022	0.087	0.012	0.019	98.737	<0.05	<0.10	07/01/2017

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
39.1	36.2	10.8	07/01/2017

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager

Heat: SXF162069

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL M6061-T6/T6511/T6510/T652 ALUMINUM ROUND BAR

SPECIFICATION:

QQ-A-2258 OR AMS-QQ-A-2258 (OR AMS 4174/128/4115/4116)
OR QQ-A-20048 OR AMS-QQ-A-20048 (OR AMS 4160)

OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6RID^DDDD

| DIA |

WHERE "D,DDD" = DIAMETER IN INCHES

E.G. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
2009-09-09
[Signature]

REFORMAT	DRWG ADD B211 & B221 SPEC (ZN DB-1)	CP	09/07/13
REF PAR	08/02A	CS	01/06/08
A	NEW ISSUE	DESCRIPTION	
REV		REV	DATE

DESIGN DRAWN BY *[Signature]* DART AEROSPACE LTD

CHECKED BY *[Signature]* HAWKESBURY, ONTARIO CANADA

MFG. APPR. NO. M6061T6R REV. B

APPROVED BY *[Signature]* SHEET 1 OF 1

DE APPR. DATE 09.07.13 SCALE NTC

DATE 09.07.13

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Printed on 09/09/2009 at 09:09 AM by DART Aerospace Ltd.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061TGR (.250)
 DATE: 18/11/15

PO / BATCH NO.: P001674/5127981

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: .40ft
 QUANTITY INSPECTED: .40ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .250"
 THICKNESS RECEIVED: .250"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	Y <u>N</u>	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	Y <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	Y <u>N</u>	<i>ASTM B21</i>
CORRECT THICKNESS	Y <u>N</u>	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	Y <u>N</u>	<i>HT: SxF162064</i>
CORRECT MATERIAL IDENTIFICATION	Y <u>N</u>	
CORRECT M# ON THE MATERIAL	Y <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AJ</u>	SIGNED OFF BY: _____
DATE: <u>18/11/15</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

5127

RAL-12

0UV-51507

20035

52385



GVA
Global Vietnam
Aluminium Co., Ltd.

GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN WARD, PHU MY TOWN,
BA RIA-VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954

Fax: +84(0)643924953

MILL TEST CERTIFICATEDate: July 30th, 2018

PO number: 18-P-201M-2

Shipping Ref No.: 18-1785

LC No.: DC HMN812752

Date of issue: July 23, 2018

Item Code: EXI30014

Die Number: D00324

Alloy & Temper: 6061-T6

Production Description: ALUMINIUM EXTRUDED PROFILES

ROD 0.5 240" 6061-T6

Length (inch): 240

Bundle number: 18-P-201M-2-042, 18-P-201M-2-028

Heat Number: SXD180879

Date: 30/06/2018

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									EACH	TOTAL	
0.624	0.981	0.230	0.245	0.011	0.072	0.084	0.016	97.636	<0.05	<0.10	27/06/2018

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
41.32	38.56	11.6	27/06/2018

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TNHH NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

heat: SXD 180879

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 6061-T6/T651/T6510/T6511/T652 ALUMINUM ROUND BAR
SPECIFICATION: QQ-A-2258 OR AMS-QQ-A-2258 (OR AMS 4117/4128/4115/4116)
OR QQ-A-2088 OR AMS-QQ-A-2088 (OR AMS 4160)

OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6RIDDDD
| DIA.

WHERE "D,DDD" = DIAMETER IN INCHES
E.G., 5/8" ROUND BAR = M6061T6R0.625

RELEASED
2009-09-09
[Signature]

B	REFORMATION ONE ADD B211& R221 SPEC (ZIN DB-1), REF PAR C9 02CA	CP 09-07-13
A	NEW ISSUE	DS 01-06-08
REV.	DESCRIPTION	HW DATE
DESIGN DRAWN	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	DRAWING NO. M6061T6R	REV. B SHEET 1 OF 1
MFG. APPR.	APPROVED JAN	NTG
APPROVED	DATE 09.07.13	SCALE 6061-T6 ROUND BAR
DE APPR.		COPYRIGHT © 2001 BY DART AEROSPACE LTD. All rights reserved.
DATE		NTG

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 R0.500
 DATE: 18/11/15

PO / BATCH NO.: P2041674/5127982

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 204
 QUANTITY INSPECTED: 204
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500"
 THICKNESS RECEIVED: 0.500"
 SHEET SIZE ORDERED: -
 SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<u>Y</u> <u>N</u>	
CORRECT FINISH	<u>Y</u> <u>N</u>	
CORROSION	<u>Y</u> <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> <u>N</u>	<i>ASTM R21</i>
CORRECT THICKNESS	<u>Y</u> <u>N</u>	
PHOTO REQUIRED	<u>Y</u> <u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> <u>N</u>	<i>HT.SXD 180879</i>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> <u>N</u>	
CORRECT M# ON THE MATERIAL	<u>Y</u> <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<u>Y</u> <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<u>Y</u> <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/11/15</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PAL-12486061

TRA 2485

51722

MILL TEST CERTIFICATE	No: 0401 Date: 3/19/2018	CERTIFIED SRAC-IQNet ISO 9001/2015 No.10 Valid 2020	vimetco ALU SLATINA
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CONTRACT/ORDER : 2231
 BILL OF DELIVERY : 80354833
 TRUCK/CONTAINER : TNU 4403450

MATERIAL : ALUMINUM PLATES
 ALLOY : 6081
 LOT/DIMENSIONS (mm): 70191776 . . . 0.5"THX48.5"WDX144.5"LT

TEMPER: T651

ACCORDING TO : ASTM B209; AMS 4027N; ANSI H35.2; ASME SB209; AMS-QQ-A-250/11

ACTUAL MECHANICAL PROPERTIES			1 MPa = 1 N/mm ² = 0.145 ksi = 0.102 kgf/mm ²									
			1 lbs = 0.4536 kg	UTS KSI	YTS KSI	Elong.% 50mm						
Specified values:			min. max.	min. max.	min.							
LOT / BATCH	CASE	NET WEIGHT lbs	Measured values:									
70191776 S38015101	608481;608487	4,638.630	46	39.4	19.5							
			46	39	20.5							
ACTUAL CHEMICAL ANALYSIS %												
BATCH	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Tl	Ga	V	Al
S38015101	0.7	0.87	0.26	0.14	1.02	0.18	0.018	0.13	0.02	0.012	0.018	REM. REM REM
Al Si V P Cu Mn Mg Cr Ni Zn Tl Ga V Al	Min. Max.	0.4 0.8	0.7 0.4	0.15 0.15	0.8 1.2	0.04 0.35	0.05 0.25	0.15 0.05	0.05 0.05	0.05 0.05	0.05 0.05	REM.
Remarks:			Other- Each- Max.: 0.05			Others Total- Max.: 0.13						

REMARKS:

ACCORDING TO: ASTM B209:2014; AMS 4027N:2008; ANSI H35.2:2017; ASME SB209:2016; AMS-QQ-A-250/11:1997

We hereby certify that the material detailed hereon has been produced and tested according to the requirements of the relevant standards, specification and/or order. Keep in dry conditions, without large temperature variations. The differences between metal and air must not exceed 11 °C. Please follow the recommendations of the Aluminum Association Guide for minimizing water staining, latest edition, for the unloading and storage of the material in your premises before usage. Also we certify that ALRO products complies with REACH legislation no. 1907/2008 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals and CLP legislation no. 1272/2008 on classification, labeling and packaging of substances and mixtures.

According to EN 10204:2004 3.1

QUALITY CONTROL DEPT.

Harius Olteneanu, Eng.

SC ALRO SA SLATINA
Punct de lucru Slatina
Str. Milcov Nr.1, Jud. Olt
Serv. Inspectie Calitate

ALRO S.A. No.116, Pitesti Street Phone: +(40) 0249 435 117; 0249 432 658 alro@alro.ro

230048-Slatina- ROMANIA Fax: +(40) 0249 411 487; 0249 418 802 www.alro.ro

cod f1/PO-051/Rev.4/2012

heat: S38015101

SPECIFICATION CONTROL DRAWING

1	2	3	4	5	6	7	8
D							
C							
PURCHASE MATERIAL M6061-T6/T62/T651 ALUMINUM SHEET OR PLATE <small>QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4028 OR 4027 OR ASTM B209</small>							
SPECIFICATION: <small>M6061T6S XXX X W.WWW THK WIDTH </small>							
PART NUMBER: <small>WHERE "XXX" = THICKNESS (IN INCHES) AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)</small>							
<small>EG. 0.063" THICK SHEET = M6061T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500</small>							
PREFERRED SIZE: <small>XXX BY 4FT BY 8FT FOR SHEET</small>							
C							
PREFERRED SIZE: <small>2000 MAR 13 40 EE 18-05</small>							
B							
APPROVED <small>DS NO JFS HS CP DATE</small>							
<small>DESIGN DRAWN CHECKED MFG. APPR. APPROVED DE APPR. DATE</small>							
<small>ML NO JFS HS CP DATE</small>							
<small>C ADD PLATE AND T651 SPEC: REFORMATT DWG. ADD B209 SPEC (ZN D8-1). NEW ISSUE</small>							
<small>B REFORMAT DWG. ADD B209A REF PAR 08-020A</small>							
<small>A NEW ISSUE</small>							
<small>REV. DESCRIPTION BY DATE</small>							
<small>DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA</small>							
<small>REV. C SHEET 1 OF 1 SCALE NTS</small>							
<small>COPYRIGHT © 2001 BY DART AEROSPACE LTD ALL RIGHTS RESERVED. REPRODUCTION IN WHOLE OR IN PART IS PROHIBITED.</small>							

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T65.500
 DATE: 18/11/15

PO / BATCH NO.: P0041674/S127983

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 165F
 QUANTITY INSPECTED: 165F
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500"
 THICKNESS RECEIVED: 0.500"
 SHEET SIZE ORDERED: 4ft x 4ft
 SHEET SIZE RECEIVED: 4ft x 4ft

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	ASTM B204
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	HT: S38015101
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>A1</u>	SIGNED OFF BY: _____
DATE: <u>18/11/15</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

5747

RSS - 1

19493



CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2015 CERTIFICATE No. 0416001002

ADDRESS: 1st, SUNDI SATIAR, N. S. PATEL MARG, VADODARA 390 009, INDIA

Tel: 91-22- 66290660. Fax: 91-22-66290664

Website : www.chandanssteel.netEmail : cs@chandanssteel.net

I/c. No.:

I/c. Date:

WORKS PLOT NO. 31 TID 34, 45, 46 & 47/2, 42

(EXP. AREA: JIDC, UMBERGHAON & SURVEY NO. 102/2 & 3, VILLAGE,

DEHARI, TALUKA: UMBERGHAON, DIST: VALSAD, GUJARAT - 396171

GSTIN - 25AAACCD15B1ZG

52039

P860(824) QC 09/09/11.01.2018

MILL TEST/INSPECTION CERTIFICATE 3.1 ACCORDING TO EN 10201 : 2005

				Test Certificate No. : EXP/00313-07/2018-2019							
				Date of Issue : 30.06.2018							
				P. O. No. : MN6118							
				SC. No. & Date : 18-19/0047, Dt. 04.05.2018							
				Invoice No. & Date : EXP/00313/2018-19 Dt. 30.06.2018							
PRODUCT DESCRIPTION				LENGTH	Net Wt.						
STAINLESS STEEL ROUND BARS				Ordered	Actual	7984 Lbs.					
				12' - 14'	12' - 14'						
Heat No.	Grade AISI	Size mm/inches	Tolerance	Process Route							
CH-8421	304L	1"	h9	Electric Melting, A.O.D. Refining, Continuous Casting							
CHEMICAL COMPOSITION (Weight %)											
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	N
Min.	-	-	-	-	-	18.00	-	8.00	-	-	-
Max.	0.030	1.00	2.00	0.045	0.030	20.00	-	12.00	-	-	-
Results	0.027	0.40	1.64	0.042	0.021	18.14	-	8.01	-	-	-
MECHANICAL PROPERTIES											
Specified Value	Yield Strength N/mm ² /MPa (Rp0.2)		Tensile Strength N/mm ² /MPa (Rm)		Elongation %	Reduction of Area %		Hardness (HB)			
Min.	170		485		30	40		-			
Max.	-		-		-	-		-			
Results	322		662		44	67		202-205			
Remarks:											
1. Cold drawn & Centreless Ground.										2. Solution annealed at 1050 °C.	
3. FMI test done 100% & found Satisfactory.											
4. Material is free from radio-active contamination.											
5. Inter-Craniular Corrosion Test as per ASTM A262 - 15 (Pr.E) satisfactory.											
6. The material hardness is in Accordance with NACE MR 0175/ISO 15156-1:2015 and NACE MR 0103-2007.											
7. The material conforms to ASTM A276/A276M-17, A182/A182M-17, A679/A679M-17 & ASME SA 679/SA679 M- 2015 Specifications.											
8. Location of sample - Off Centre, Direction - Longitudinal, Test Temp - Room Temp, Shape of Test Piece - Round.											
9. Marking details - Company Logo, Size, Grade & Heat No.											
10. The material is manufactured/melt in Chandan Steel Mill and is of Indian Origin.											
11. No welding/weld repairs was performed on this material.											
BUNDLE NO.: 11 to 13, 29 to 31											

It is hereby certified that the above results are true and correct in every detail and are meeting the requirements of specification & purchase order.

B. S. RAUTELA
MANAGER - QUALITY ASSURANCE



SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)

A
SPECIFICATION:
PART NUMBER:

ASTM A276

M304R/D^{DDD}
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. Ø .75" ROUND BAR = M304R0.750

RELEASED
08/25/06

B	REFORMAT DATE: AND SPEC CS (2N Dg 1) REF FAR OR DIA	GP	09-07-15
A	NEW ISSUE	AJS	08.03.03
REV	DESCRIPTION	BY	DATE
DESIGN			DART AEROSPACE LTD
DRAWN	<i>AJS</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>AA</i>	DRAWING NO.	
MFG. APPR.	<i>AA</i>	REV. B	
APPROVED	<i>AA</i>	SHEET 1 OF 1	
DE APPR.	<i>AA</i>	SCALE	
DATE	09.07.15	NTS	
COPRIGHT © 2006 BY DART AEROSPACE LTD			

PRINTED ON 08/25/06 BY DART AEROSPACE LTD

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304RL.00
 DATE: 18/11/15

PO / BATCH NO.: P0041674/5127985

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 41.4t
 QUANTITY INSPECTED: 41.4t
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000"
 THICKNESS RECEIVED: 1.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	Y <u>N</u>	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	Y <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	Y <u>N</u>	ASTM A276
CORRECT THICKNESS	Y <u>N</u>	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	Y <u>N</u>	HT:CH-8421
CORRECT MATERIAL IDENTIFICATION	Y <u>N</u>	
CORRECT M# ON THE MATERIAL	Y <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AJ</u>	SIGNED OFF BY: _____
DATE: <u>18/11/15</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

5768

RSS-38

Fidelity C12259

51864

VIRAJ

VIRAJ PROFILES LIMITED

Works: SURVEY NO.- 25/1, 25/2, 26 & 34, Village- MAAN, Taluka- PALGHAR, Dist.- THANE, MAHARASHTRA -401 506, INDIA,
e-mail- vielqc@viraj.com

18931

TEST CERTIFICATE

ORDER NO	PACKING LIST NO	INSPECTION NO	DATE
	64/1015893/37	100007558464	08.12.2016
		GRADE	HEAT No
		304/304L	43806

BUNDLE NO :
1100619278, 1100619277, 1100619276, 1100619275, 1100619274,

DESCRIPTION

STAINLESS STEEL BRIGHT BARS

COLD DRAWN POLISHED - 2H

SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	WEIGHT
3/8"	ROUND	ASTM A484	12' - 14'	1259	5,700.000 LB

CHEMICAL ANALYSIS

%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%Co	%N2
0.0230	1.630	0.270	0.0250	0.0360	18.220	8.050	0.600	0.450	0.160	0.08300

TEST RESULTS

0.2% yield strength ksi	Tensile Strength ksi	Elongation %	Reduction Of Area %	Hardness BHN	Grain Size NOS
93.0	111.0	42.0	73.0	226.0	7.0

SPECIFICATION:

MATERIAL CONFIRMS TO DIN EN 10088-3:2005; WNR 1.4301/1.4307, EN 10222-5 AND EN 10272 COND-A & ASTM A182/A-182M-15, ASTM A276/A276M-16 COND A, A479/A479M-15 COND A, A193/A193M-12b B8 CL-1, A320/A320M-11a B8 CL-1, A484 16, A388/A388M-05, ASME SA182-14, SA479-11, SA 193-11 B8 CL-1, SA320-11 B8 CL-1. ASTM A314-2008. IGC SATISFACTORY AS PER ASTM A 262-10 PRACTICE E. AMS 5639H/AMS5647J (EXCEPT MARKING), QQ-S-763F. NACE MR0103-2012, NACE-MR0175/ISO-15156-2015. SAE-AMS-S-7720A, MIL-S-862-B. AISI 304/304L & UNS#S30400/S30403. CERTIFICATION AS PER EN 10204-3.1.

REMARKS

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MICRO:FREE FROM CONTINUOUS CARBIDE NETWORK ON GRAIN BOUNDARIES. MACRO:GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 1/2 HRS, WATER QUENCHED. MELT SOURCE:AOD. WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION. COUNTRY OF ORIGIN: INDIA.

We hereby certify that the material described above has been tested and complies with the terms of order/contract.



WORKS INSPECTOR
K R K MURTHY

heat: 43806

2

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)

ASTM A276

SPECIFICATION:
PART NUMBER:

M304R[D.DDD]
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
E.G. 0.75" ROUND BAR = M304R0.750

RELEASED
Oct 25/15

B	REFORMAT DNG. ADD SPEC CS (EN D6-1)	CP	09-07-15
A	REF PAR 98-020A	AUS	08-03-03
REV.	NEW ISSUE	BY	DATE
DESIGN	AJS		
DRAWN	<i>A</i>		
CHECKED	<i>A</i>		
MFG. APPR.	<i>A</i>		
APPROVED	<i>A</i>		
DE APPR.	<i>A</i>		
DATE	304/316 ROUND BAR 09.07.15		
	NFS		
	COPYRIGHT © 2006 BY DART AEROSPACE LTD		
	ALL INFORMATION CONTAINED HEREIN IS UNPUBLISHED PROPRIETARY INFORMATION OF DART AEROSPACE LTD.		
	INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED, COPIED OR DISCLOSED, IN WHOLE OR IN PART,		
	WITHOUT THE EXPRESS WRITTEN PERMISSION OF DART AEROSPACE LTD.		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304RD.375
 DATE: 18/11/15

PO / BATCH NO.: P0041674/5127986

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 11.08ft
 QUANTITY INSPECTED: 11.08ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375"
 THICKNESS RECEIVED: 0.375"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N <input type="radio"/>	ASTM A276
CORRECT THICKNESS	Y <input checked="" type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N <input type="radio"/>	HIT: 43806
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AJ</u>	SIGNED OFF BY: _____
DATE: <u>18/11/15</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



ACIER OUELETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl.: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl.: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

C000120068

Copy

DELIVERY - CLIENT

C000120068

Billed to	DART AEROSPACE LTD	Shipped to	1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7
Instruction	F-M	Delivery Route	Att : LUSSIER Tél.: (613) 632-5200 X 730
Customer Nº	CL10001056	Date	2018/11/09
Delivery date	2018/11/11	Your order Nº	041674
Processed by	Josianne Bour	Salesman	OUELLETTE V
Carrier	5	Credit Termes	Net 30 Days

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 ROUND 4140 HEAT TREAT 7/8 (R) R4140-78H <i>1 X 20' R/L</i> <i>TRANSIT ST-JEROME LE 14/11</i> <i>Heat. M55997</i>	40.90	20.00	PI \$CLB		12	2					
2 ROUND 4140 ANNEALED 4 1/2 (R) R4140-412A <i>1 X 43" DC</i> <i>TRANSIT ST-JEROME LE 14/11</i> <i>Heat. J84443</i>	185.11	3.33	PI \$CLB		1X	43					

Note : ATTENTION: MIL-TEST BEQUIS

23

Total Weight (1 kg) : 226.01 NIP : B-100516-6

"Acer Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is made in full compliance and cashed. All lost, materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc." to the client, the buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :	Delivered By :	Time	Y	M	D
				18	11	15
Customer's Signature						Date

Eaton Steel Bar Company Inspection Certificate 1696552

R41478
EN 10204:2004-3.1

Customer	BOL	Ship Date	Customer PO	Item	Customer Item	Item Description
	224436	30-Jan-2018	B39274	11141 rev 003	502241	7/8 HR RD 4140/42MM 20H2In SBQ QTST FG MST

All bundles listed below were produced using steel from Heat M55987 issued by GERDAU-MONROE and were completed from Eaton Steel Job 808640.

Chemistry	Description	Value	Units	Mechanical	Description	Value	Units
C	Carbon	0.41000	PHGT	TENSILE PSI	Tensile Strength in PSI Units		PSI
Mn	Manganese	0.88000	PHGT	YIELD PSI	Yield Strength in PSI Units		PSI
P	Phosphorus	0.01900	PHGT	ELONGATION	Percent Elongation		PCT
S	Sulfur	0.01800	PHGT	REDUCTION	Percent Reduction in Area		PCT
Si	Silicon	0.26000	PHGT	BRINELL SURF	Brinell Surface	301.0	BHN
Ni	Nickel	0.13000	PHGT	HEAT TREATING	Description	Value	Units
Cr	Chromium	0.98000	PHGT	TEMPER TEMP F	Temper Temp in Fahrenheit	500 - 2500	DEGF
Mo	Molybdenum	0.16000	PHGT	AUSTEN TEMP F	Austenite Temp in Fahrenheit	1600 - 1700	DEGF
Al	Aluminum	0.01800	PHGT	SR TEMP F	Stress Relief Temp in Fahrenheit	500 - 2500	DEGF
Cu	Copper	0.22000	PHGT	MAGNETISM-HIT	Magnetism in Gauss	0 - 20	GN
V	Vanadium	0.00300	PHGT	TIME AT TEMP	Time at Temperature	-	Report
Cb	Columbium	0.00300	PHGT	QUENCH MEDIA	Quench Media Requirements	PAW/O	-
N	Nitrogen	0.00650	PHGT	STRESS FREE	Cert stress free	CERTIFIED	-
P+S	Element Sum Limit	0.03700	PHGT	HT4140-420T	Quench & Temper	CONFORMS	-
DI	Ideal Diameter	5.26000	TN	Mill Processing	Description	Value	Units
Cleanliness	Description	Value	Units	MELT COUNTRY	Melted in Country	USA	-
MACRO ETCH	Report macro etch results.			ROLLED COUNTRY	Rolled in Country	USA	-
Geometry	Description	Value	Units	RED RATIO	Reduction Ratio	59.90	RED
DIAMETER	Diameter	0.8670 - 0.8830	TN	ASTM Standard	Description	Value	Units
Joining	Description	Value	Units	A19/A193M-01	Grade B7	CONFORMS	-
J1	1/16 inch from Quenched End	57	HRC	A34-A34-BC	ASTMA BC Tensile and Yield properties	CONFORMS	-
J2	2/16 inch from Quenched End	57	HRC	Structure	Description	Value	Units
J3	3/16 inch from Quenched End	57	HRC	PERCENT TM	Percent Tempered Martensite	80 - 100	PCT
J4	4/16 inch from Quenched End	57	HRC	MICROSTRUCTURE	Reported Microstructure	TM	-
J5	5/16 inch from Quenched End	57	HRC	Tag Number	QTY	Length	-
J6	6/16 inch from Quenched End	57	HRC	022-2188194	4025 LBS	20ft	
J7	7/16 inch from Quenched End	56	HRC				
J8	8/16 inch from Quenched End	55	HRC				
J9	9/16 inch from Quenched End	54	HRC				
J10	10/16 inch from Quenched End	52	HRC				
J11	11/16 inch from Quenched End	45	HRC				
J12	12/16 inch from Quenched End	44	HRC				
J13	13/16 inch from Quenched End	50	HRC				
J14	14/16 inch from Quenched End	48	HRC				
J15	15/16 inch from Quenched End	46	HRC				
J16	16/16 inch from Quenched End	45	HRC				
J17	17/16 inch from Quenched End	44	HRC				
J20	20/16 inch from Quenched End	42	HRC				
J22	22/16 inch from Quenched End	40	HRC				
J24	24/16 inch from Quenched End	38	HRC				
J26	28/16 inch from Quenched End						
J32	32/16 inch from Quenched End						

Bundled bags with Eaton Steel identifiers reference the steel grade, heat, purchase order number where applicable, part number, product description and quantity. Material produced in accordance with Eaton Steel's Quality Manual QM-C0002 Rev 0 dated 11/21/2013.

We hereby certify the above to be in conformance, and a true copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the possession of Eaton Steel.

Created on 30-Jan-2018
Marc Benjamin, Corporate Metallurgist

This document was prepared by means of electronic
data processing and is valid without signature.

10221 Capital Avenue, Oak Park, MI 48237 USA
<http://www.eatonsteel.com>

Tel: 248-398-1434
Fax: 248-398-1434



GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT

CUSTOMER ORDER NUMBER	CUSTOMER PART NUMBER	HEAT NUMBER	WORK ORDER NUMBER	DATE
148088	1012470/4140EFVD	M55997	291125 101	8/11/14

Danieli Cast

REPORT TO
DAN MCNAUGHTON
EATON STEEL CORPORATION
10221 CAPITAL
OAK PARK , MI 48237

SHIP TO
EATON STEEL CORPORATION %
VULCAN HEAT TREATING
10 CROSSCREEK TRAIL
PELHAM , AL 35124

ORDERED

GRADE	SIZE	LENGTH
4140EFVD	0 7/8"	RND 20' 2"

CUSTOMER SPECIFICATIONS

ITEM 1012470 REV 1 DTD 3/7/12; A29/A29M-12; A322-07

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Sn	Al
0.41	0.88	0.019	0.018	0.26	0.13	0.98	0.16	0.22	0.011	0.018
V	Nb	N								
0.003	0.003	0.0065								

GRAIN SIZE SPECIFICATION ASTM E112 FINE GRAIN 5-8

HARDENABILITY SPECIFICATION ASTM A255/A304

THEORETICAL

J1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32 34
57 57 57 57 57 57 56 55 54 52 50 48 46 45 44 42 40 38

DI CALCULATION SPECIFICATION CAT 1E0024

5.26

REDUCTION RATIO SPECIFICATION ITEM 1012470

RATIO= 59.9 TO 1.0

PAGE 1

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Wendy J. Craig Wendy J. Craig

Quality Assurance Representative

CONTINUED ON PAGE 2



GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT

CUSTOMER ORDER NUMBER	CUSTOMER PART NUMBER	HEAT NUMBER	WORK ORDER NUMBER	DATE
148088	1012470/4140EFVD	M55997	291125 101	8/11/14

Danieli Cast

REPORT TO
DAN MCNAUGHTON
EATON STEEL CORPORATION
10221 CAPITAL
OAK PARK , MI 48237

SHIP TO
EATON STEEL CORPORATION %
VULCAN HEAT TREATING
10 CROSSCREEK TRAIL
PELHAM , AL 35124

ORDERED

GRADE	SIZE	LENGTH
4140EFVD	0 7/8"	RND 20' 2"

CUSTOMER SPECIFICATIONS
ITEM 1012470 REV 1 DTD 3/7/12; A29/A29M-12; A322-07

RESIDUAL MAX SPECIFICATION ITEM 1012470

P+S = 0.0370

RESIDUAL MIN SPECIFICATION ITEM 1012470

P+S = 0.0370

ASTM E381 MACRO ETCH SATISFACTORY: S1/R1/C1

** MATERIAL 100% MELTED AND MANUFACTURED IN THE U.S.A. BY THE ELECTRIC ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION.
GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL.

PAGE 2 OF 2

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Wendy J. Craig Wendy J. Craig

Quality Assurance Representative



Vulcan Threaded Products
10 Cross Creek Trail
Pelham, AL 35124
Tel (205) 620-5100
Fax (205) 620-5150

JOB MATERIAL CERTIFICATION

Job No: 388939

Customer Part No: 1013442-001

Customer PO No: 148089-765527

Order No: 229406

Note: W67655327

Containers: S8899057 S8900817 S8905945 S8908239

Ship To: Drive Taylor, MI 48180

Certified Date: 10/21/14

Customer: Eaton Steel Corporation

Customer Part No: 1013442-001

Customer PO No: 148089-765527

Order No: 229406

Ship To: 20601 Trolley Industrial

Line No: 1

Shipped Qty: 30223 lbs

Notes:

Macro C

Macro R

Macro S

Macro T

Macro U

Macro V

Macro W

Macro X

Macro Y

Macro Z

Macro AA

Macro BB

Macro CC

Macro DD

Macro EE

Macro FF

Macro GG

Macro HH

Macro II

Macro JJ

Macro KK

Macro LL

Macro MM

Macro NN

Macro OO

Macro PP

Macro QQ

Macro RR

Macro SS

Macro TT

Macro UU

Macro VV

Macro WW

Macro XX

Macro YY

Macro ZZ

Macro AAA

Macro BBB

Macro CCC

Macro DDD

Macro EEE

Macro FFF

Macro GGG

Macro HHH

Macro III

Macro JJJ

Macro KKK

Macro LLL

Macro MLL

Macro NLL

Macro OLL

Macro PLL

Macro QLL

Macro RLL

Macro SLL

Macro TLL

Macro ULL

Macro VLL

Macro WLL

Macro XLL

Macro YLL

Macro ZLL

Macro AAL

Macro BBL

Macro CCL

Macro DLL

Macro EEL

Macro FFL

Macro GGL

Macro HHL

Macro IIL

Macro JKL

Macro KLL

Macro LLL

Macro MLL

Macro NLL

Macro OLL

Macro PLL

Macro QLL

Macro RLL

Macro SLL

Macro TLL

Macro ULL

Macro VLL

Macro WLL

Macro XLL

Macro YLL

Macro ZLL

Macro AAL

Macro BBL

Macro CCL

Macro DLL

Macro EEL

Macro FFL

Macro GGL

Macro HHL

Macro IIL

Macro JKL

Macro KLL

Macro LLL

Macro MLL

Macro NLL

Macro OLL

Macro PLL

Macro QLL

Macro RLL

Macro SLL

Macro TLL

Macro ULL

Macro VLL

Macro WLL

Macro XLL

Macro YLL

Macro ZLL

Macro AAL

Macro BBL

Macro CCL

Macro DLL

Macro EEL

Macro FFL

Macro GGL

Macro HHL

Macro IIL

Macro JKL

Macro KLL

Macro LLL

Macro MLL

Macro NLL

Macro OLL

Macro PLL

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Macro RLL

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Macro TLL

Macro ULL

Macro VLL

Macro WLL

Macro XLL

Macro YLL

Macro ZLL

Macro AAL

Macro BBL

Macro CCL

Macro DLL

Macro EEL

Macro FFL

Macro GGL

Macro HHL

Macro IIL

Macro JKL

Macro KLL

Macro LLL

Macro MLL

Macro NLL

Macro OLL

Macro PLL

Macro QLL

Macro RLL

Macro SLL

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Macro WLL

Macro XLL

Macro YLL

Macro ZLL

Macro AAL

Macro BBL

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Macro EEL

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Macro EEL

Macro FFL

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Macro HHL

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Macro MLL

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Macro BBL

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Macro EEL

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Macro MLL

Macro NLL

Macro OLL

Macro PLL

Macro QLL

Macro RLL

Macro SLL

Macro TLL

Macro ULL

Macro VLL

Macro WLL

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Vulcan Threaded Products
10 Cross Creek Trail
Pelham, AL 35124
Tel (205) 620-5100
Fax (205) 620-5150

JOB MATERIAL CERTIFICATION

THREADED PRODUCTS, INC.

Job No: 388939

Job Information

Certified Date: 10/21/14

Containers: S8899057 S89000817 S8905945 S8900239

Test Results

Part No. HRB 4140 875x240 QT & ES

Test No. 30480 Test: Quench & Temper Physicals (KSI)

Description	Tensile (ksi)	Yield 0.2% Offset (ksi)	Elongation (%)	Elongation Gage Length	ROA (%)	Midradius Hardness	Surface Hardness	Center Hardness	Hardness Test Type	Note
	148.0	132.5	19.5	4D	55.0	31.7	32.2		HRC	

Test No. 30479 Test: Quench & Temper Information (Lbs)

Description	Tempering Temp (F)	Run Speed (Ft/min)	Quench Water Temp (F)	Note
Quench & Temper Information Results	1,304	39.50	81.1	

Nalhews, Casie - Lab Secretary

Date

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140QT-R0.875
 DATE: 18/11/15

PO / BATCH NO.: P0041674/S128382

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 2044
 QUANTITY INSPECTED: 204
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.875"
 THICKNESS RECEIVED: 0.875"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
	Y	N	
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	<u>ASTM A193</u>
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	<u>HT: M55997</u>
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>A1</u>	SIGNED OFF BY: <u>LMH</u>
DATE: <u>18/11/15</u>	DATE: <u>22 Nov 2018</u>

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CERTIFICATE OF COMPLIANCE / CERTIFICAT DE CONFORMITÉ

Order No. / No. Commande	CUSTOMER / CLIENT	Packing slip / No. d'expédition	DATE
Order No. / No. Commande	CUSTOMER / CLIENT	Packing slip / No. d'expédition	DATE
AC00013952	LES ACIERS OUELLETTE INC	L36715-01	06-03-18
MATERIAL ID# / No. MATÉRIEL 2017-1882	GRADE / NUANCE AISI 4140	HEAT TREATMENT / TRAITEMENT THERMIQUE Q.T.S.R / TREMPÉ REVENU - RECUIT DE DÉTENTE (RONDS)	HEAT / COULEE J8443

SHAPE / FORME	SIZE / DIMENSION	SPECIFICATIONS
Round / Rond	4.500" in.	ASTM A29-12,A370-14,A434 Class BD-06,A193B7-14
PAYS D'ORIGINE:	FRANCE	IMPACT TEST -40°C: 35,4J / 35,2J / 38,6J -30°C: 44,6J / 44,2J / 41,2J

CHEMICAL COMPOSITION / ANALYSE CHIMIQUE

Carbon (C)		Silicon (Si)		Manganese (Mn)		Phosphorus (P)	
mini/maxi	0.380	0.430	0.150	0.350	0.750	1.000	0.035
actuel (%):	0.414		0.283		0.922		0.012
Sulfur (S)		Chromium (Cr)		Nickel (Ni)		Molybdenum (Mo)	
mini/maxi		0.040	0.800	1.100	0.000	0.250	0.150 0.250
actuel (%):	0.014		1.057		0.247		0.235
Copper (Cu)		Vanadium (V)		Aluminium (Al)		Tungsten (T)	
mini/maxi	0.350	--	--	--	--	--	--
actuel (%):	0.162		0.000		0.025		0.000

MECHANICAL PROPERTIES / PROPRIÉTÉS MÉCANIQUES

Yield strength / Élasticité	Tensile / résistance à la traction	Elongation / allongement (%)	Reduction of area / surface (%)	Hd/dure surface
125,617	143,790	17.3%	54.0%	341 BHN

No weld repairs performed during the manufacturing of this product. We hereby certify that the above results have been verified and conform to the above mentioned specifications. Material is Mercury free, without radioactivity.

Aucune réparation exécutée par soudure durant la fabrication de ce produit. Par la présente nous attestons que les résultats ci-haut mentionnés ont été vérifiés et sont conformes aux spécifications. Pas de contact au Mercure, sans radioactivité.

Keith BALL - Branch Manager

Keith Ball

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140QT-R4.500
 DATE: 18/11/15

PO / BATCH NO.: P0041674/S128383

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 3-S8ft
 QUANTITY INSPECTED: 3.58ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.500"
 THICKNESS RECEIVED: 4.500"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL PER M-DRAWING	Y N	<u>ASTM A29</u>
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> N	<u>PH-J8443</u>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	
CORRECT M# ON THE MATERIAL	<u>Y</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: <u>Ken Bet</u>
DATE: <u>18/11/15</u>	DATE: <u>22 Nov 2018</u>

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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FEES - 11G483042B

51230

TRA-2324

Certificate No.	F180427039
Date:	APR 17, 2018

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MILL TEST CERTIFICATE



華源企業股份有限公司
FROCH ENTERPRISE CO., LTD.

NO.122 INDUSTRIAL ROAD, TOU-LIU CITY,
YUN-LIN 640, TAIWAN
T:+886-5-5571670
E:+886-5-5571670

Customer Invoice No. FEX20180653												Contract No. 18136												L/C No. DC HMN810943												Spec. No. ASTM A240-13C/A480-14												Page: 1 of 1																																																																																			
Description												Product Size												Type												Heat No.												Specification												Test																																																																							
Item No.												Size												Heat No.												Heat Treatment												Finish												Remark																																																																							
Item No.												Size												Heat No.												QTY(PC)												Weight(MT)												Heat Treatment												Finish												Remark																																															
STAINLESS STEEL COLD ROLLED SHEET SPECIFICATION AS PER PO NO.:P-18136 TOTAL QUANTITY:19.920MT												1 20GAX48X120" 2B NO PI 2 16GA X 48" X 96" 2B PI 3 14GA X 48" X 96" 2B PI 4 11GA X 48" X 96" 2B PI 5 20GAX48X120" NO.4 BP FLPE 6 18GAX48X120" NO.4 BP FLPE 7 16GAX48X 96" NO.4 BP FLPE 8 16GAX48X 96" NO.4 BP FLPE												304 ALCO40031 304 AIW050575 304 AIV040477 304 AIN050380 304 ALE050272 304 ALE050482 304 ALE050451 304 ALE050455												78.000 1.986 102.000 3.557 39.000 1.710 75.000 5.266 74.000 1.525 50.000 1.746 66.000 2.283 41.000 1.427																																																																																															
Chemical Composition (%)												C Si Mn P S Cr Ni Mo N												Tensile Strength (N/mm ²)												0.2% Yield (N/mm ²)												Elongation %												Width of specimen mm												Gauge Length mm												Mechanical Test																																															
Item No. Min.												0.070 0.750												2.00 0.045												0.030 19.50												10.50 0.100												515.00 205.00												40.00 40.00												L.T												mm												mm												Hardness HRB											
Max.												0.070 0.750												2.00 0.045												0.030 19.50												10.50 0.100												515.00 205.00												40.00 40.00												L.T												mm												mm												92.00											
1 0.020 0.340												1.19 0.036												0.001 18.06												8.02 —												0.036 —												641.00 —												237.00 52.00												— —												— —												— —												84.00											
2 0.023 0.370												1.21 0.022												0.002 18.05												8.08 —												0.056 —												647.00 —												285.00 52.00												— —												— —												— —												86.00											
3 0.047 0.430												1.04 0.024												0.004 18.25												8.05 —												0.047 —												674.00 —												301.00 56.00												— —												— —												— —												84.00											
4 0.014 0.420												1.57 0.028												0.001 18.01												8.01 —												0.050 —												640.00 —												293.00 50.00												— —												— —												— —												84.00											
5 0.019 0.460												1.37 0.028												0.002 18.07												8.05 —												0.070 —												628.00 —												306.00 56.00												— —												— —												— —												85.00											
6 0.023 0.390												1.63 0.030												0.003 18.30												8.00 —												0.050 —												670.00 —												307.00 54.00												— —												— —												— —												88.00											
7 0.019 0.390												1.40 0.030												0.001 18.28												8.04 —												0.073 —												637.00 —												319.00 54.00												— —												— —												— —												88.00											
8 0.019 0.390												1.40 0.030												0.001 18.28												8.04 —												0.073 —												639.00 —												312.00 55.00												— —												— —												— —												87.00											
NOTES:												*REFERRING TO ASTM A240/A480												*DC HMN810943												*PO NO.:P-18136												*SHIPPING REF NO.:18-0903												*APPROVED CERTIFICATES:																																																																							
1.The material described herein is certified for no radiation contamination by original Material Manufacturer.												2.The tolerance of chemical composition is according to ASTM A480												3.Visual Inspection(Surface) and Dimension Check: Acceptable												4.We hereby certify that material described herein has been manufactured and tested with satisfactory results in accordance with the requirement of the above material specification.												1.CMS according ISO 9001(TUV Cart No:11 126922)																																																																																			
																																																												2.EMS according ISO 14001(TUV Cart No:0992007)																																																																							
																																																												3.PED (TUV Cart No:1 202 (TUVNQ-06 0145)																																																																							
																																																												4.Lab management system according ISO/IEC 17020(TAF Cart No:0001)																																																																							
																																																												5.Lab management System according ISO/IEC 17025(TAF Cart No:2271)																																																																							

SPECIFICATION CONTROL DRAWING

D PURCHASE MATERIAL AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:
MIL-S-6059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASME A240
OR ASME SA240

FINISH:

DART M-NUMBER
IDENTIFIER

FINISH	UNPOLISHED No. 1	TIP
UNPOLISHED	No. 2D	2D
UNPOLISHED	No. 2B	NONE
POLISHED	No. 3	3P
POLISHED	No. 4	4P
BUFFED	No. 6	6P
BUFFED	No. 7	7P
BUFFED	No. 8	8P

PART NUMBER:

M304S TT GA #P

WHERE "TT" = GAUGE THICKNESS
WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN.)	THICKNESS RANGE (IN.)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.09375	0.084 - 0.098
12	0.109375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.283
0	0.3125	0.301 - 0.325

RELEASED

2015 FEB 04
ECL 15-12247

D	ADDED GAUGES 0-7	A/S	15-01-06
C	DEFINED FINISH OPTION (ZN C8) AND EXAMPLE OF MATERIAL PIN WITH FINISH OTHER (ZN B8).	M8	12-09-20
B	REFORMAT DWG. ADD ASME/ASME-SPECS (ZN D8-1). ADD GAUGE REF (CB-1). REF PAR 08-020A	C-P	08-06-01
A	NEW ISSUE	DS	01-09-24
REV.	DESCRIPTION	BY	DATE
D	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	A/S	DRAWING NO	
CHECKED		MFG. APPR.	
MFG. APPR.		APPROVED	
DE APPR.		TITLE	
DATE	15-01-06	304/316 SS SHEET	NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304S11GA
 DATE: 18/11/15

PO / BATCH NO.: P0041674/S127984

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 325F
 QUANTITY INSPECTED: 325F
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.125"
 THICKNESS RECEIVED: 0.125"
 SHEET SIZE ORDERED: 4ft x 8ft
 SHEET SIZE RECEIVED: 4ft x 8ft

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/>	N
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/>	ASTM A240
CORRECT THICKNESS	Y <input checked="" type="radio"/>	N
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/>	UT: ATN050390
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/>	N
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/>	N
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/11/15</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in